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```
1 0001 0 MODULE LIBSMATCH_COND (%TITLE'Library Match Condition Value List'  
2 0002 0 IDENT = '1-003', ! File: LIBMATCH.B32 (Conflicts with LIBSMATCHC.MAR)  
3 0003 0 LINKAGE(FORTRAN) ! Edit: SBL1003  
4 0004 0 ) =  
5 0005 1 BEGIN  
6 0006 1  
7 0007 1  
8 0008 1 *****  
9 0009 1 *  
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27 0027 1 *  
28 0028 1 *  
29 0029 1 *****  
30 0030 1  
31 0031 1  
32 0032 1 **  
33 0033 1 FACILITY: General Utility Library  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1  
37 0037 1 Check for a match between the condition value addressed by the  
38 0038 1 first parameter and the condition value addressed by the subsequent  
39 0039 1 parameters. Each parameter is the address of a condition value.  
40 0040 1 Only the pertinent fields are checked within the condition value.  
41 0041 1  
42 0042 1 ENVIRONMENT: User Mode - AST re-entrant  
43 0043 1  
44 0044 1 AUTHOR: Donald G. Petersen, CREATION DATE: 30-Nov-1977  
45 0045 1  
46 0046 1 MODIFIED BY:  
47 0047 1  
48 0048 1 Donald G. Petersen, 30-Nov-1977: VERSION 0  
49 0049 1 0-1 - original  
50 0050 1 0-2 - RETURN I - 1 DGP 05-DEC-77  
51 0051 1 0-3 - add . (dot) operator to COND VAL DGP 05-DEC-77  
52 0052 1 0-04 - Change to STARLET library. DGP 20-Apr-78  
53 0053 1 0-05 - Change REQUIRE files for VAX system build. DGP 28-Apr-78  
54 0054 1 0-06 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78  
55 0055 1 0-07 - Add check for facility specific bit. TNH 17-June-78  
56 0056 1 0-10 - Change file name to LIBMATCHC.B32, and change the name  
57 0057 1 of the REQUIRE file similarly. JBS 14-NOV-78
```

:	58	0058	1	:	0-011 - Change the file name to LIBMATCH.B32 to avoid conflict with
:	59	0059	1	:	LIBMATCHC.MAR (match characters) when producing object
:	60	0060	1	:	files. JBS 15-NOV-78
:	61	0061	1	:	1-001 - Change the version number to 1 and update
:	62	0062	1	:	the copyright notice. JBS 16-NOV-78
:	63	0063	1	:	1-002 - Declare ACTUALCOUNT, ACTUALPARAMETER and NULLPARAMETER
:	64	0064	1	:	for the new BLISS compiler. JBS 22-NOV-78
:	65	0065	1	:	1-003 - Use prologue file. SBL 24-June-1983
:	66	0066	1	:	--


```

: 68      0067 1 |
: 69      0068 1 | PROLOGUE FILE:
: 70      0069 1 |
: 71      0070 1 |
: 72      0071 1 REQUIRE 'RTLIN:LIBPROLOG';      ! LIB$ definitions
: 73      0142 1 |
: 74      0143 1 |
: 75      0144 1 | TABLE OF CONTENTS:
: 76      0145 1 |
: 77      0146 1 |
: 78      0147 1 FORWARD ROUTINE
: 79      0148 1 LIBSMATCH_COND;      ! The routine which performs the comparisons.
: 80      0149 1 |
: 81      0150 1 |
: 82      0151 1 | MACROS:
: 83      0152 1 |
: 84      0153 1 | NONE
: 85      0154 1 |
: 86      0155 1 | EQUATED SYMBOLS:
: 87      0156 1 |
: 88      0157 1 | NONE
: 89      0158 1 |
: 90      0159 1 | OWN STORAGE:
: 91      0160 1 |
: 92      0161 1 | NONE
: 93      0162 1 |
: 94      0163 1 | EXTERNAL REFERENCES:
: 95      0164 1 |
: 96      0165 1 | NONE
```

```

: 98      0166 1 GLOBAL ROUTINE LIBSMATCH_COND ( ! Routine which compares condition values
: 99      0167 1     COND_VAL, ! Adr. of desired condition value
: 100     0168 1     COND_VAL_1) ! Adr. of condition value to compare
: 101     0169 1     =
: 102     0170 1 ++
: 103     0171 1 FUNCTIONAL DESCRIPTION:
: 104     0172 1
: 105     0173 1 This routine will take a portion (ST$V_COND_ID) of the condition value pointed
: 106     0174 1 to by the first parameter and compare it to the same portion of the condition
: 107     0175 1 value pointed to by the second through nth parameters.
: 108     0176 1 If the facility specific bit (ST$V_FAC_SP) is set, the facility
: 109     0177 1 number (ST$V_FAC_NO), the facility specific bit, and the message
: 110     0178 1 code (ST$V_CODE) are included in the compare (ST$V_COND_ID).
: 111     0179 1 Otherwise, only the facility specific bit and the code are included (ST$V_MSG_NO).
: 112     0180 1 The routine returns a 0 if
: 113     0181 1 a match is not found, a 1 if the second parameter matches, a 2 if the third
: 114     0182 1 parameter matches and so on. A check is made for null parameter entries in the
: 115     0183 1 parameter list although the index is still incremented.
: 116     0184 1
: 117     0185 1 FORMAL PARAMETERS:
: 118     0186 1
: 119     0187 1     cond_val.rlc.r           Adr. of desired value
: 120     0188 1     {cond_val_i.rlc.r}      Adr. of value to compare
: 121     0189 1
: 122     0190 1 IMPLICIT INPUTS:
: 123     0191 1
: 124     0192 1     NONE
: 125     0193 1
: 126     0194 1 IMPLICIT OUTPUTS:
: 127     0195 1
: 128     0196 1     NONE
: 129     0197 1
: 130     0198 1 ROUTINE VALUE:
: 131     0199 1
: 132     0200 1     index.wlu.v
: 133     0201 1     0, if no match found
: 134     0202 1     i, for match between the 1st and (i+1)th parameter
: 135     0203 1
: 136     0204 1 SIDE EFFECTS:
: 137     0205 1
: 138     0206 1     NONE
: 139     0207 1
: 140     0208 1 --
: 141     0209 1
: 142     0210 1 +
: 143     0211 1 Check for a null parameter each iteration.
: 144     0212 1 If not a null parameter then compare the 1st and (i+1)th parameters
: 145     0213 1 If no match is found by the time all parameters are exhausted then return a 0.
: 146     0214 1 -
: 147     0215 1
```



```
149 0216 2 BEGIN
150 0217 2
151 0218 2 BUILTIN ACTUALCOUNT, ACTUALPARAMETER, NULLPARAMETER;
152 0219 2
153 0220 2 IF .BLOCK[.COND_VAL, ST$V_FAC_SP; , BYTE]
154 0221 2 THEN ! Facility specific bit set
155 0222 2 BEGIN
156 0223 2 INCR I FROM 2 TO ACTUALCOUNT() DO
157 0224 2 IF NOT NULLPARAMETER(.I)
158 0225 2 THEN
159 0226 2 IF .BLOCK[.COND_VAL, ST$V_COND_ID; , BYTE] EQLU .BLOCK[ACTUALPARAMETER(.I), ST$V_COND_ID;
160 0227 2 THEN
161 0228 2 RETURN .I - 1
162 0229 2 END
163 0230 2
164 0231 2 ELSE ! Facility specific bit not set
165 0232 2
166 0233 2 BEGIN
167 0234 2 INCR I FROM 2 TO ACTUALCOUNT() DO
168 0235 2 IF NOT NULLPARAMETER(.I)
169 0236 2 THEN
170 0237 2 IF .BLOCK[.COND_VAL, ST$V_MSG_NO; , BYTE] EQLU .BLOCK[ACTUALPARAMETER(.I), ST$V_MSG_NO; ,
171 0238 2 THEN
172 0239 2 RETURN .I - 1
173 0240 2
174 0241 2 END;
175 0242 2
176 0243 2 RETURN 0
177 0244 1 END;
```

```
.TITLE LIB$MATCH_COND Library Match Condition Value Li
st
.IDENT \1-003\
```

```
.PSECT _LIB$CODE, NOWRT, SHR, PIC, 2
```

				04	000C	00000	.ENTRY	LIB\$MATCH_COND, Save R2,R3	: 0166
					BC	B5 00002	TSTW	@COND_VAL	: 0220
					2B	18 00005	BGEQ	3\$	
		52			6C	9A 00007	MOVZBL	(AP), R2	: 0223
		50			01	D0 0000A	MOVL	#1, I	
					1D	11 0000D	BRB	2\$	
50			6C	08	00	ED 0000F 1\$:	CMPZV	#0, #8, (AP), I	: 0224
					16	19 00014	BLSS	2\$	
					6C40	D5 00016	TSTL	(AP)[I]	
					11	13 00019	BEQL	2\$	
		51			6C40	D0 0001B	MOVL	(AP)[I], R1	: 0226
53		19	61		03	EF 0001F	EXTZV	#3, #25, (R1), R3	
53	04	19	BC		03	ED 00024	CMPZV	#3, #25, @COND_VAL, R3	
					2A	13 0002A	BEQL	5\$	
		50			52	F3 0002C 2\$:	AOBLEQ	R2, I, 1\$: 0224
			DF		30	11 00030	BRB	7\$: 0222
		52			6C	9A 00032 3\$:	MOVZBL	(AP), R2	: 0235
		50			01	D0 00035	MOVL	#1, I	

50	6C	08	24	11	00038	BRB	6\$:	
			00	ED	0003A	CMPZV	#0, #8, (AP), I	:	0236
			1D	19	0003F	BLSS	6\$:	
			6C40	D5	00041	TSTL	(AP)[I]	:	
			18	13	00044	BEQL	6\$:	
		51	6C40	D0	00046	MOVL	(AP)[I], R1	:	0238
	53	61	04	BC	AD 0004A	XORW3	@COND VAL (R1), R3	:	
	FFF8	8F	53	B3	0004F	BITW	R3, #85528	:	
			08	12	00054	BNEQ	6\$:	
		51	FF	A0	9E 00056	MOVAB	-1(R0), R1	:	0240
		50	51	D0	0005A	MOVL	R1, R0	:	
				04	0005D	RET		:	
	D8	50	52	F3	0005E	AOBLEQ	R2, I, 4\$:	0236
			50	D4	00062	CLRL	R0	:	0243
				04	00064	RET		:	0244

; Routine Size: 101 bytes, Routine Base: _LIB\$CODE + 0000

; 178 0245 1 END
; 179 0246 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	101	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	3	0	581	00:00.7
\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBMATCH/OBJ=OBJ\$:LIBMATCH MSRC\$:LIBMATCH/UPDATE=(ENH\$:LIBMATCH)

; Size: 101 code + 0 data bytes
; Run Time: 00:03.0
; Elapsed Time: 00:18.3

: Lines/CPU Min: 4871
: Lexemes/CPU-Min: 14415
: Memory Used: 58 pages
: Compilation Complete

0208 AH-BT13A-SE
VAX/VMS V4.0

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